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FIG.-1A

#5

173	F	C	P	A	L	R	P	L	E	L	G	F	Q	L	P	188	
529	TTC	TGC	CCG	GCC	CTG	CGC	CCC	CTG	GAA	CTC	CTG	GGC	TTC	CAG	CTC	CCG	576
189	P	L	P	E	L	R	L	R	N	N	G	H	S	V	Q	L	204
577	CCG	CTC	CCA	GAA	CTG	CGC	CTG	CGC	AAC	AAT	GGC	CAC	AGT	GTG	CAA	CTG	624
205	T	L	P	P	G	L	E	M	A	L	G	P	G	R	E	Y	220
625	ACC	CTG	CCT	GGG	CTA	GAG	ATG	GCT	CTG	GGT	CCC	GGG	CGG	GAG	TAC	672	
221	R	A	L	Q	L	H	L	H	W	G	A	A	G	R	P	G	236
673	CGG	GCT	CTG	CAG	CTG	CAT	CTG	CAC	TGG	GGG	GCT	GCA	GGT	CGT	CCG	GGC	720
237	S	E	H	T	V	E	G	H	R	F	P	A	E	I	H	V	252
721	TCG	GAG	CAC	ACT	GTG	GAA	GGC	CAC	CGT	TTC	CCT	GCC	GAG	ATC	CAC	GTG	768
253	V	H	L	S	T	A	F	A	R	V	D	E	A	L	G	R	268
769	GTT	CAC	CTC	AGC	ACC	GCC	TTT	GCC	AGA	GTT	GAC	GAG	GCC	TTG	GGG	CGC	816
269	P	G	G	L	A	V	L	A	A	F	L	E	E	G	P	E	284
817	CCG	GGA	GGC	CTG	GCC	GTG	TTG	GCC	GCC	TTT	CTG	GAG	GAG	GGC	CCG	GAA	864
285	E	N	S	A	Y	E	Q	L	L	S	R	L	E	E	I	A	300
865	GAA	AAC	AGT	GCC	TAT	GAG	CAG	TTG	CTG	TCT	CGC	TTG	GAA	GAA	ATC	GCT	912
301	E	E	G	S	E	T	Q	V	P	G	L	D	I	S	A	L	316
913	GAG	GAA	GGC	TCA	GAG	ACT	CAG	GTC	CCA	GGA	CTG	GAC	ATA	TCT	GCA	CTC	960
317	L	P	S	D	F	S	R	Y	F	Q	Y	E	G	S	L	T	332
961	CTG	CCC	TCT	GAC	TTC	AGC	CGC	TAC	TTC	CAA	TAT	GAG	GGG	TCT	CTG	ACT	1008
333	T	P	P	C	A	Q	G	V	I	W	T	V	F	N	Q	T	348
1009	ACA	CCG	CCC	TGT	GCC	CAG	GGT	GTC	ATC	TGG	ACT	GTG	TTT	AAC	CAG	ACA	1056

349	V	M	L	S	A	K	Q	L	H	T	L	S	D	T	L	W	364
1057	GTG	ATG	CTG	AGT	GCT	AAG	CAG	CTC	CAC	ACC	CTC	TCT	GAC	ACC	CTG	TGG	1104
365	G	P	G	D	S	R	L	Q	L	N	F	R	A	T	Q	P	380
1105	GGA	CCT	GGT	GAC	TCT	CGG	CTA	CAG	CTG	AAC	TTC	CGA	GCG	ACG	CAG	CCT	1152
381	L	N	G	R	V	I	E	A	S	F	P	A	G	V	D	S	396
1153	TG	AAT	GGG	CGA	GTG	ATT	GAG	GCC	TCC	TTC	CCT	GCT	GGA	GTG	GAC	AGC	1200
397	S	P	R	A	A	E	P	V	Q	L	N	S	C	L	A	A	412
1201	AGT	CCT	CGG	GCT	GCT	GAG	CCA	GTC	CAG	CTG	AAT	TCC	TGC	CTG	GCT	GCT	1248
413	G	D	I	L	A	L	V	F	G	L	F	A	V	T	S	428	
1249	GGT	GAC	ATC	CTA	GCC	CTG	GTT	TTT	GGC	CTC	CTT	TTT	GCT	GTC	ACC	AGC	1296
429	V	A	F	L	V	Q	M	R	R	Q	H	R	R	G	T	K	444
1297	GTC	GCG	TTC	CTT	GTG	CAG	ATG	AGA	AGG	CAG	CAC	AGA	AGG	GGA	ACC	AAA	1344
445	G	G	V	S	Y	R	P	A	E	V	A	E	T	G	A	*	460
1345	GGG	GGT	GTG	AGC	TAC	CGC	CCA	GCA	GAG	GTA	GCC	GAG	ACT	GGA	GCC	TAG	1392
1393	AGG	CTG	GAT	CTT	GGA	GAA	TGT	GAG	AAG	CCA	GCC	AGA	GGC	ATC	TGA	GGG	1440
1441	GGA	GCC	GGT	AAC	TGT	CCT	GTC	CTG	CTC	ATT	ATG	CCA	CTT	CCT	TTT	AAC	1488
1489	TGC	CAA	GAA	ATT	TTT	TAA	AAT	AAA	TAT	TTA	TAA	T					1522

FIG._1C

FIG._1A

FIG._1B

FIG._1C

FIG._1

+

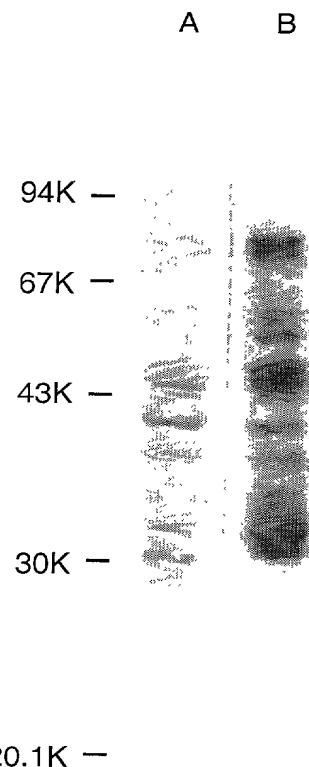


FIG._2

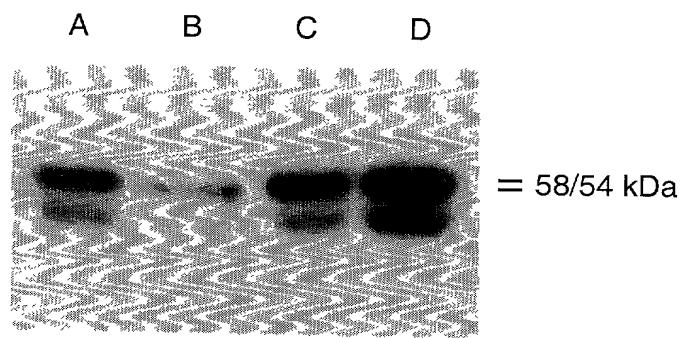


FIG._3

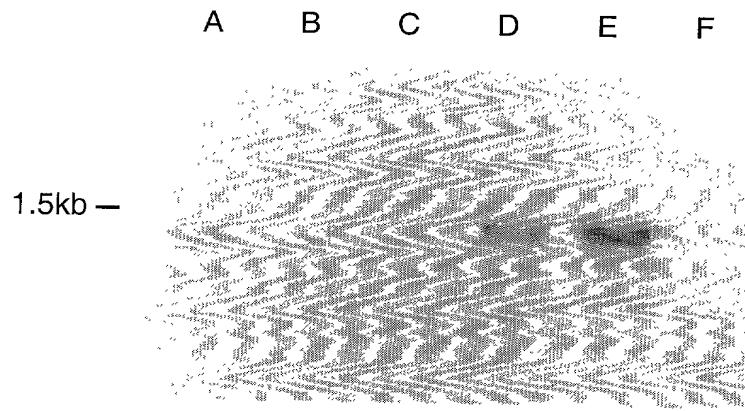


FIG._4

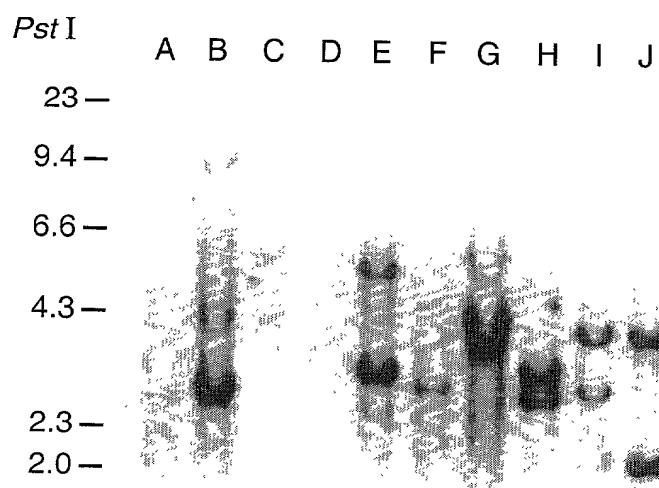


FIG._5

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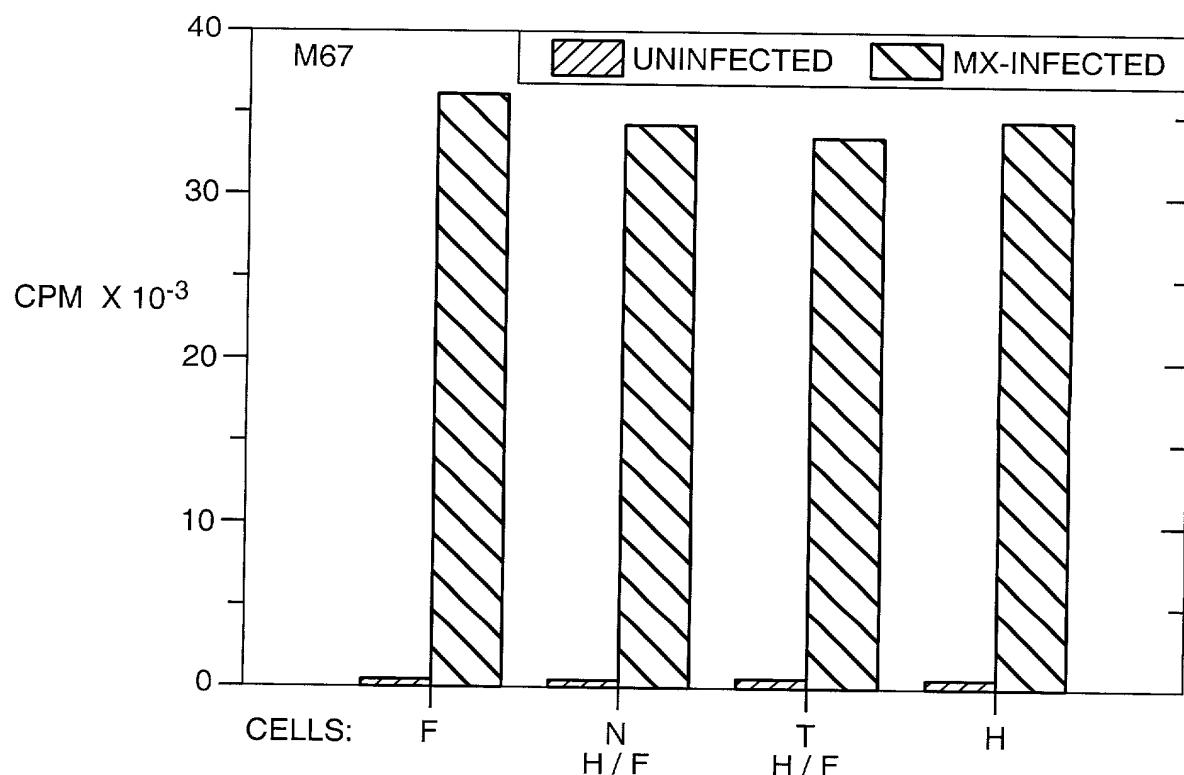


FIG._6A

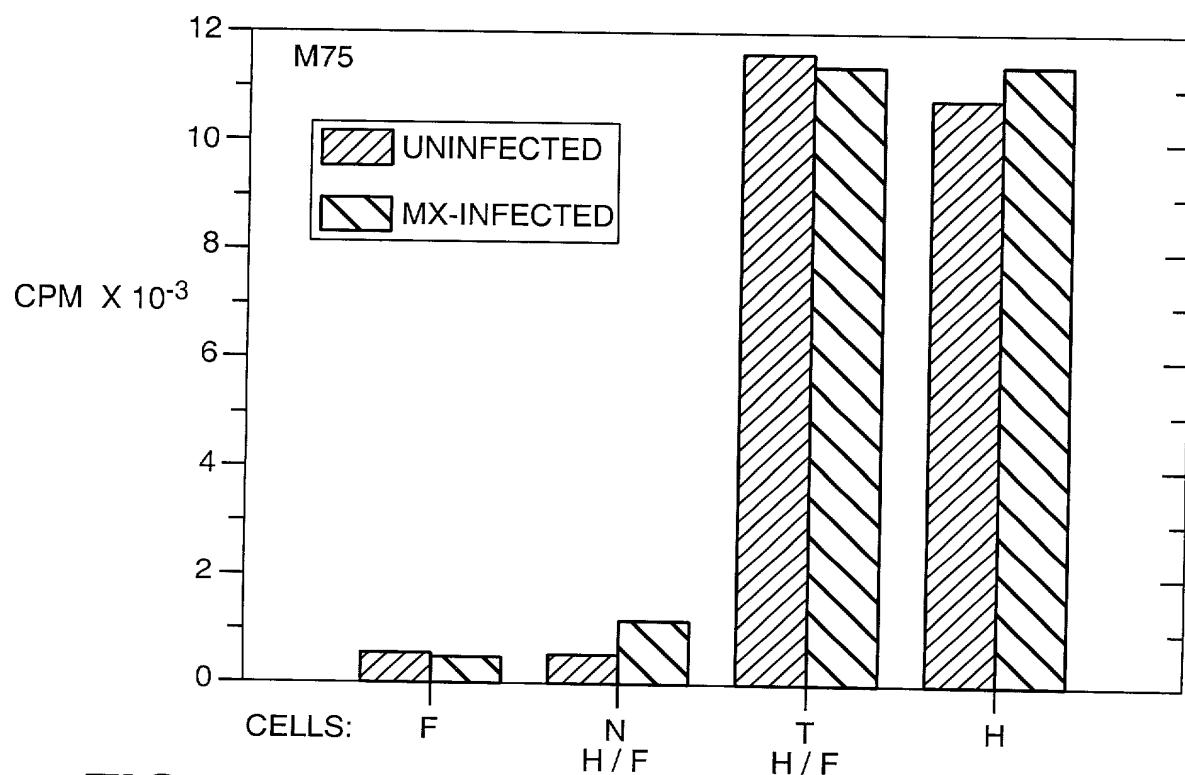


FIG._6B

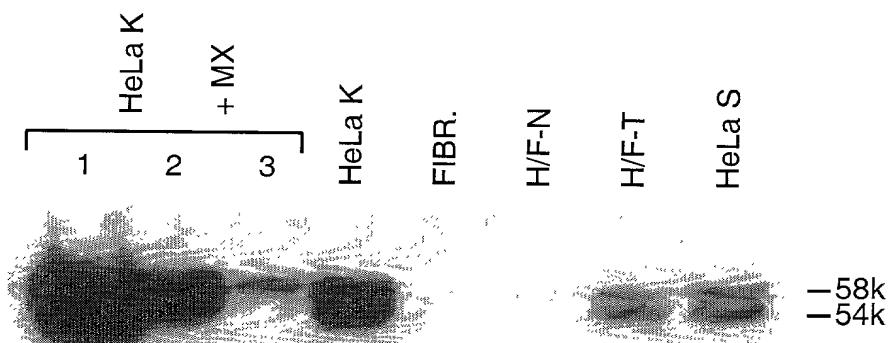
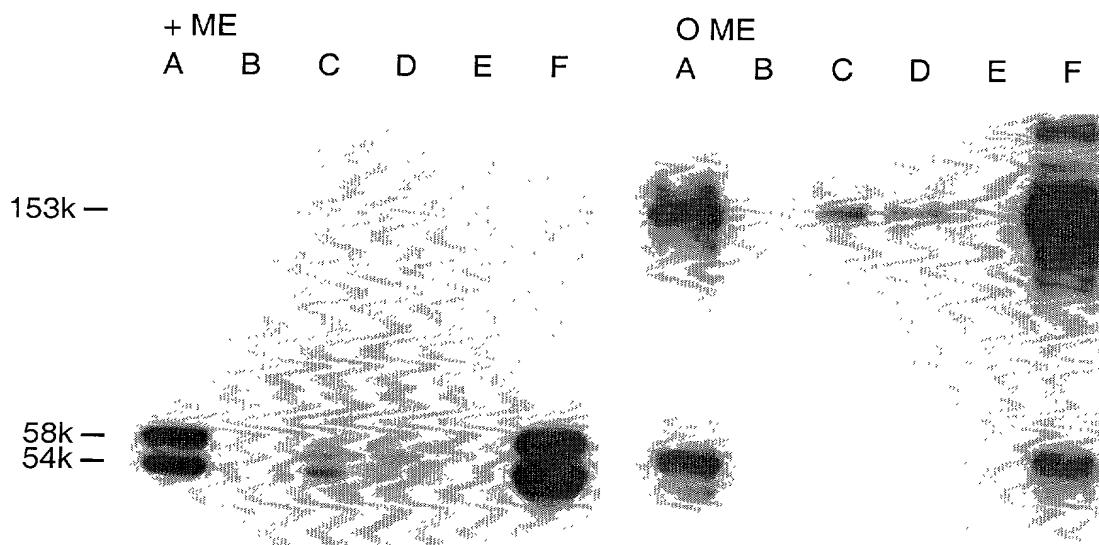
**FIG.-7****FIG.-8**

FIG.-9

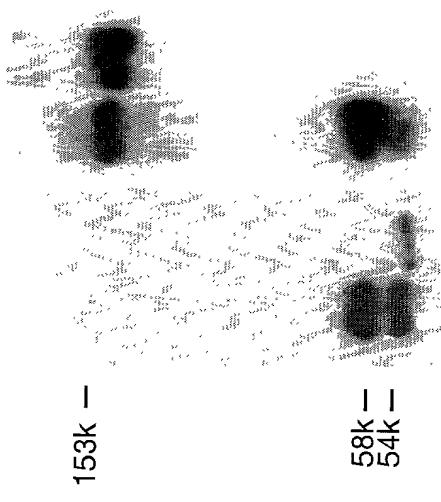
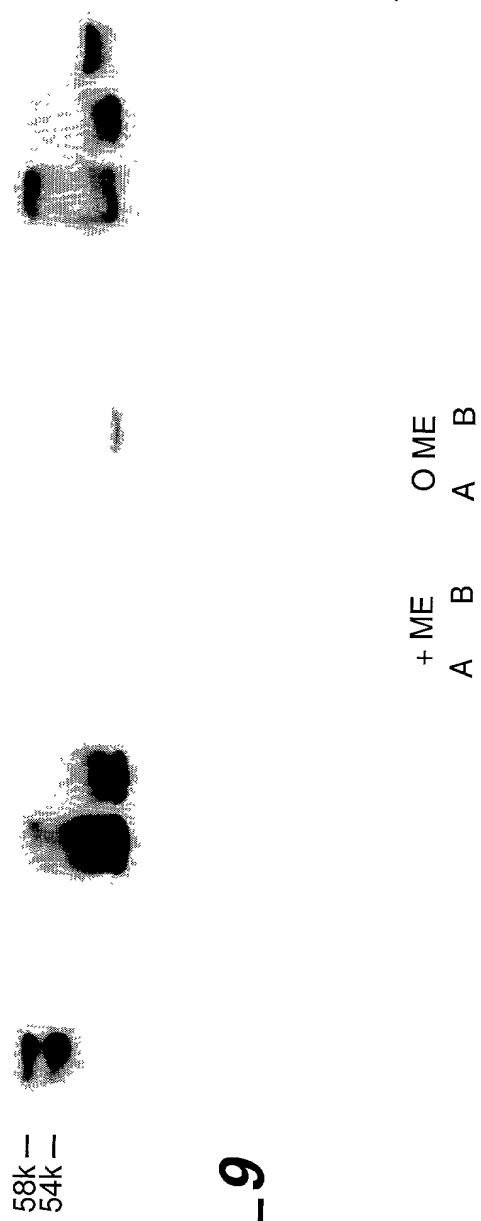


FIG.-10

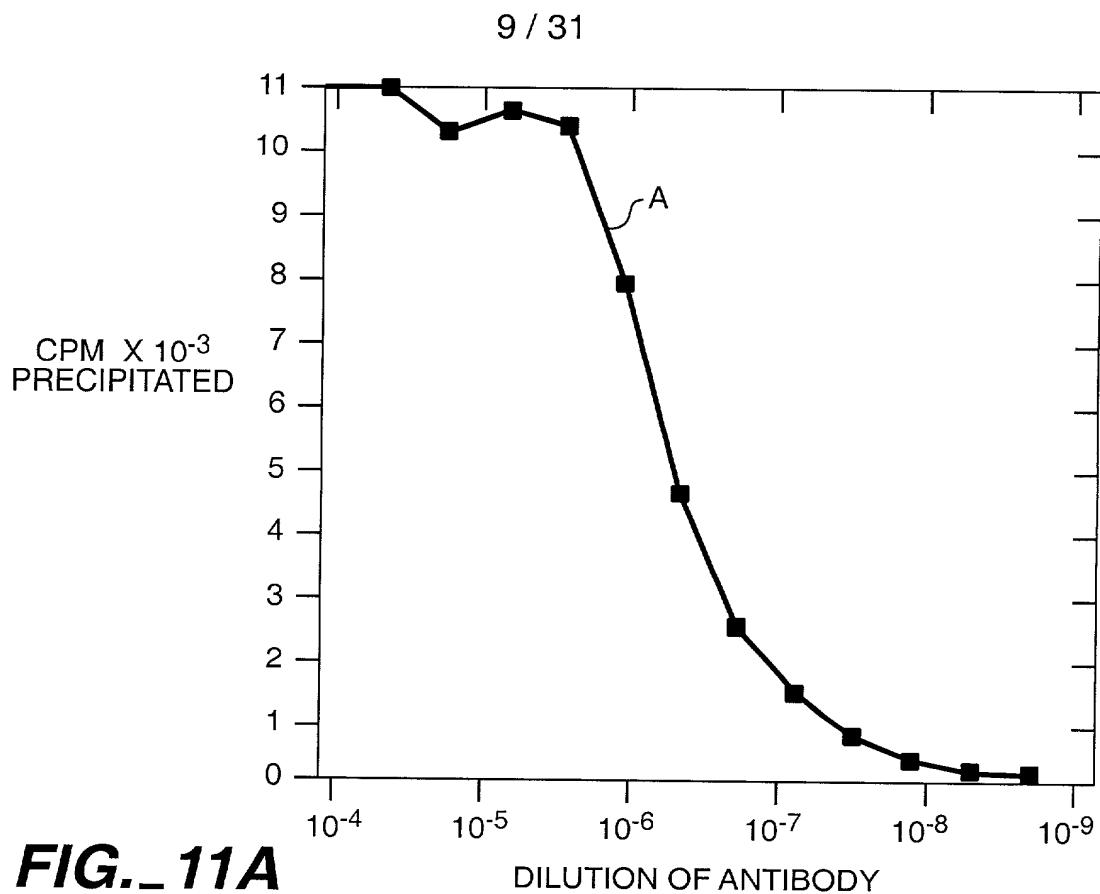


FIG._ 11A

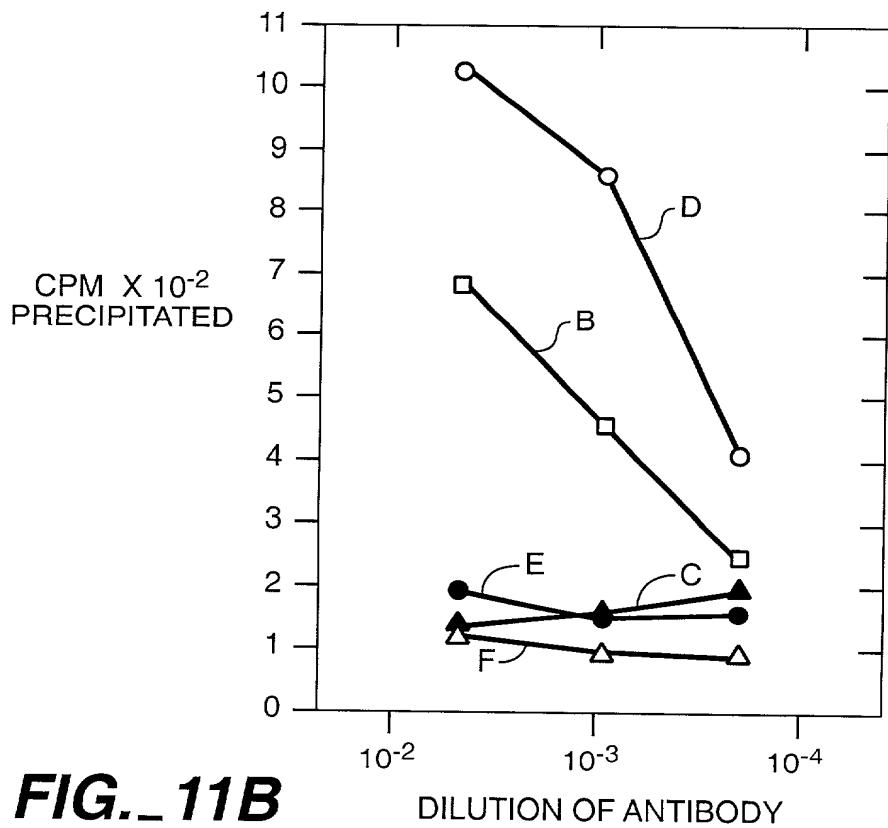


FIG._ 11B

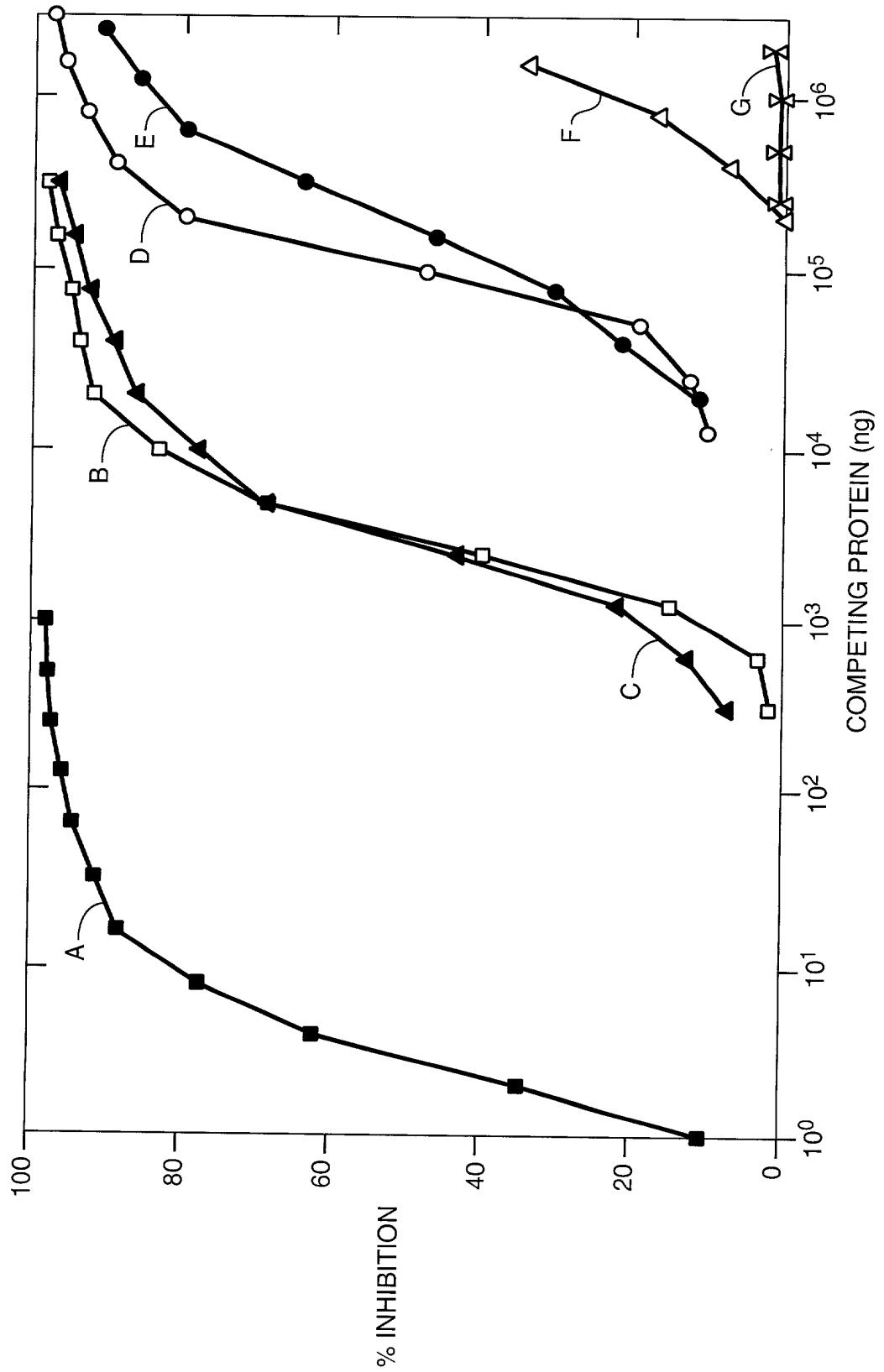


FIG.-12

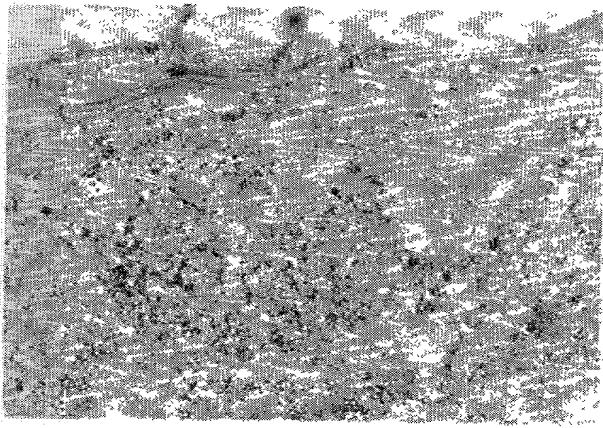


FIG._13A

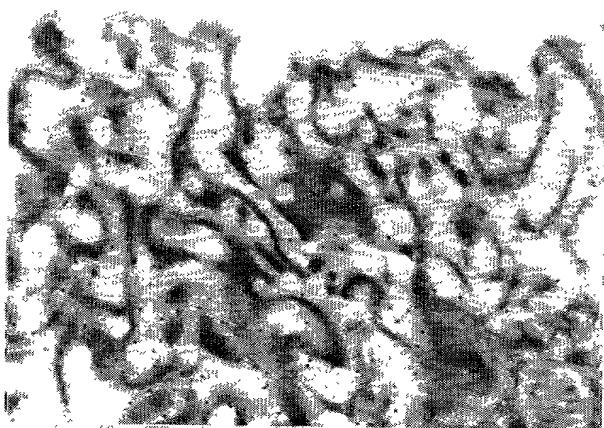


FIG._13B

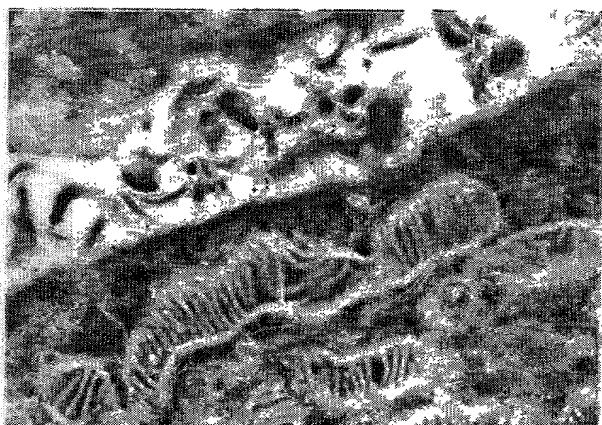


FIG._13C

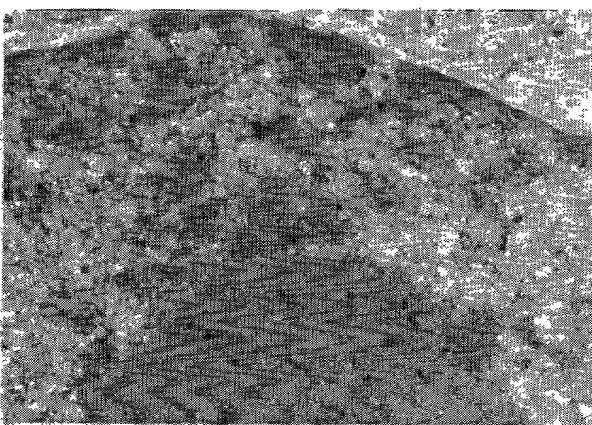


FIG._13D

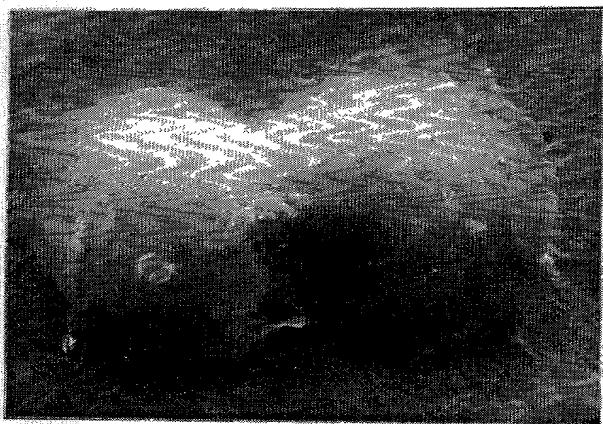


FIG._13E

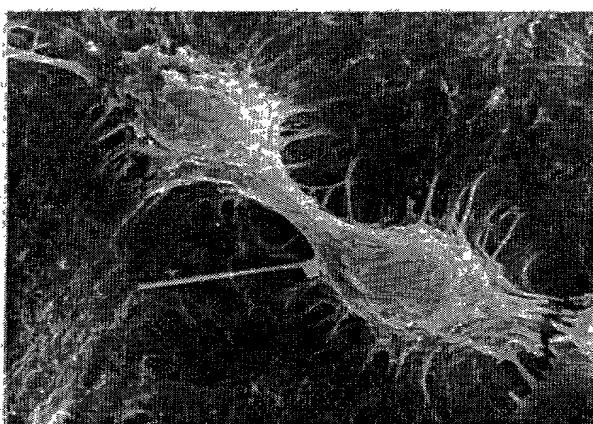


FIG._13F

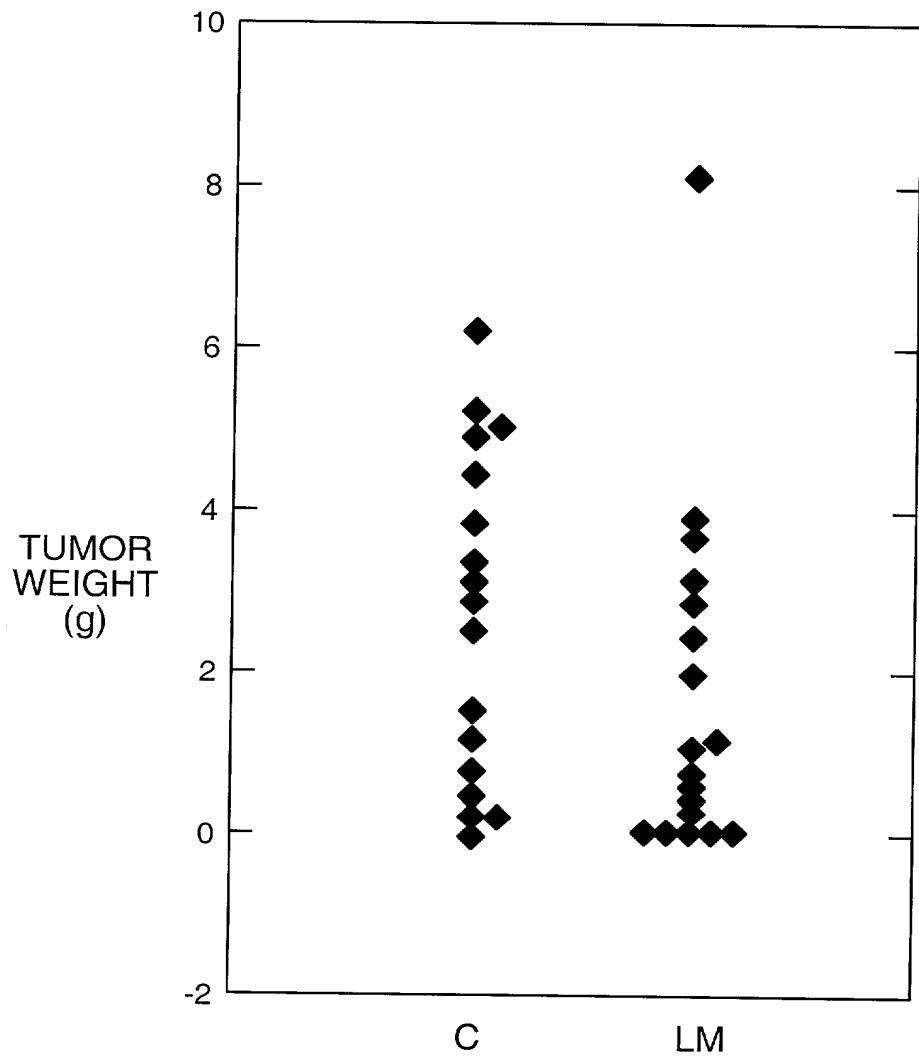


FIG._14

1 ggatccgttt gactcggtac cttaccacca taaggccggat gcaaggatgtg ctctgaaaca tgagctgtgt
 61 ccactcaggg ttaaattggat aatccatcacc aatccctaatt cttcaagtaat ctttggttaaa cagatgcttg
 121 aaggcaggcat gctcgtaag ggtccctctgc aatccctaatt ctagggaaac ctaggacccctt ctttcacttg
 181 aacactggg aaggccggcgg ctatgtccca ctatgtccca ctagggaaac ctaggacccctt ctgtgagaaa
 241 tttatccgtac cttccctccaa ttatcaataaa aaaaataaaat taaaatggat aatccaaaat aaaaaaaaaaaa
 301 cacccaaagaa ttatcaataaa aaaaataaaat taaaatggat aatccaaaat aaaaaaaaaaaa
 361 aaaaaaaaaaa gacttacgaa tagttatgtaaat gctatgtgta aatccaaaat aaaaaaaaaaaa
 421 aatgatccata ttcaaaacca gacggccatc gtcattttt ggatttcaacta atcacagctc aagtctacctt
 481 ctttatcatt gtcattttt acatttagggg gttacatgaa gcttgaacactt aatccatgtc
 541 aatgttctaat tacgttccaa aatccatgtt gttacatgaa gcttgaacactt aatccatgtc
 601 ttgttttga gcccattttttt gtaggaaatgaaat gcttacatgtc
 661 tttaaactttt acctcttaatg gatgtttttt gtaggaaatgaaat gcttacatgtc
 721 tagttaatgg atgcactgtt aatccatgtt tgatgtttttt gcttacatgtc
 781 gggtaggttag ttactcaattt gttttttttt gtaggaaatgaaat gcttacatgtc
 841 ttgtactggc ctttatctgt aatatggca tatttaatccatgtc
 901 ttgtttttttt gatgtttttt aatatggca tatttaatccatgtc
 961 ggagtagcag tggccatc tccggcttcaactt gacggatgtttt gcatctgtca tgcccaact
 1021 ttccctgcctc aggctcccgatgtttttt gacggatgtttt gcatctgtca tgcccaact
 1081 tttttgtat tttttgtat gtaggtttttt gacggatgtttt gcatctgtca tgcccaact
 1141 ctgacttcgtt gatccacccgg cttccacccgg cttccacccgg cttccacccgg cttccacccgg
 1201 cgcacccgg ccaattttt gagtcttttta aatccatgtt gacggatgtttt gcatctgtca tgcccaact
 1261 tatggcatat ttccctttttaatgttttta aatccatgtt gacggatgtttt gcatctgtca tgcccaact
 1321 gcatggcatat gctttagttt gatccacccgg cttccacccgg cttccacccgg cttccacccgg
 1381 catgttatat ttccctttttaatgttttta aatccatgtt gacggatgtttt gcatctgtca tgcccaact
 1441 tcatttttttccatgtttttaatgttttta aatccatgtt gacggatgtttt gcatctgtca tgcccaact
 1501 ctgttttttttccatgtttttaatgttttta aatccatgtt gacggatgtttt gcatctgtca tgcccaact
 1561 tctgaggatttccatgtttttaatgttttta aatccatgtt gacggatgtttt gcatctgtca tgcccaact
 1621 actatccatgtttttaatgtttttaatgttttta aatccatgtt gacggatgtttt gcatctgtca tgcccaact
 1681 catatctggca tcaagtggaa agaggatgtaaat gacataatgtt tctggcatgtt tccatatttttccatgtt
 1741 gtttggtttttccatgtttttaatgttttta aatccatgtt gacggatgtttt gcatctgtca tgcccaact
 1801 tggaaatgttccatgtttttaatgttttta aatccatgtt gacggatgtttt gcatctgtca tgcccaact
 1861 gtttcataat ctcaattctgtttttaatgttttta aatccatgtt gacggatgtttt gcatctgtca tgcccaact
 1921 ttccacttggtagaaatggatgtttttaatgttttta aatccatgtt gacggatgtttt gcatctgtca tgcccaact

1981	ttgcaatttc	cttcttaactg	tgttaaaaaa	aagtatgatc	ttgctctgag	aggtgaggca
2041	tctttaatca	tgatcttaa	agatcaataa	tataatcctt	tcaaggatata	tgtctttattc
2101	ataataaaga	taattttgtct	ttaacagaat	caataaataa	atcccttaaa	ggattatatac
2161	tttgctggc	gcagtggtc	acacctgtaa	tcccagcact	ttgggtggcc	aagggtggaaag
2221	gatcaaattt	gcctacttct	atattatctt	ctaaagcaga	attcatctct	cttccctcaaa
2281	tatgatgata	ttgacagggt	ttggccctcac	tcactagatt	gtgaggtcct	gctcaggggca
2341	ggttagcgttt	tttgggtttg	tttttttgtt	tctttttgttga	gacagggtct	tgctctgtca
2401	cccgaggccag	agtgcataatgg	tacagtctca	gctcactgca	gcctcaacccg	cctcggctca
2461	aaccatcatc	ccatttcagc	ctcctgagta	gttgggacta	aggcacaatg	ccattacacc
2521	tggctaattt	tttggtattt	ctagtagaga	cagggttgg	ccatgttggc	cggctggtc
2581	tcgaactcct	ggactcaagg	aatccaccca	cctcaggcctc	ccaaaatgag	ggaccgggtgc
2641	ttattcattt	ccatgtccct	agtccatagc	ccagtgtctgg	acctatggta	gtactaaataa
2701	aatattgtt	gaatgcaata	gtaaatagca	tttcaggagg	caagaactag	attaacaaag
2761	gtggtaaaag	gttggagaa	aaaaaaataa	gttttaatttg	gcttagagtt	gagggagagtt
2821	agttaggagac	aagatggaaa	ggtctcttgg	gcaagggtttt	gaaggaagtt	ggaaggtcaga
2881	agtacacaat	gtgcatatcg	ttggcaggcag	tggggagcca	atgaaggctt	tttagggagga
2941	gagtaatgtt	ttgaaaaata	aatataaggtt	aaacctatca	gagcccccct	gacacataca
3001	cttgctttc	attcaaggctc	aagtttgtct	cccacatacc	cattacttaa	ctcacccctcg
3061	ggctcccta	gcagccctggc	ctacctttt	acctgtttcc	tggtggtgtc	agggtatgtat
3121	acatgagctg	cttccctct	cagccaggagg	acatgggggg	cccagctcc	cctgccttttc
3181	cccttctgt	cctggagctg	ggaaggcaggc	cagggttagc	tggctggc	tggcaaggcag
3241	ctgggtggtg	ccagggagag	cctgcataatg	gccagggtgg	ccctcactcca	ccaagcttagt
3301	ccatggcccc	gataaccctt	tgcctgtca	cacacctggc	cctcactcca	cccccatccct
3361	agtttggta	tggggggagg	ggcacagggc	cagacaaacc	tgtgagactt	tggctccatc
3421	tctgcaaaag	ggcgctctgt	gagtccaggct	gttcccctcc	aggcttgctc	ctccccccacc
3481	cagctctcgt	tcccaatgca	cgtacagccc	gtacacacccg	tgtgctggga	caccccacag
3541	TCAGCCGCAT	GGCTCCCCCTG	TGGCCCAAGCC	CCTGGCTCCC	TCTGTGATC	CCGGCCCCCTG
3601	CTTCCAGGCT	CACTGTGCAA	CTGCTGTGCTG	CACTGGCTGCT	TCTGGTTGCT	GTCCATCCCC
3661	AGAGGGTGGC	CCGGATGGCAG	GAGGATCCCC	CCTGGGGAGG	AGGCTCTTCT	GGGGAAAGATG
3721	ACCCACTGGG	CGAGGAGGAT	CTGCCCAAGTG	AAGGGATTG	GAGGATCCAC	GAGGAGGAG
3781	CCGGAGAGGA	GGATCTAACCT	GGAGGAGGAGG	ATCTAACCTGG	AGAGGAGGAT	CTACCTGTGAGG
3841	TTAAGCCTAA	ATCAGAAAGAA	GAGGGCTCCC	TGAAGTTAGA	GGATCTAACCT	ACTGTTGAGG
3901	CTCCTGGAGA	TCCTCAAGAA	CCCCCAGAATA	GGACAAAGAA	ATGGCCACAG	GGACAAAGAA

FIG. 15C

7921	gactcttgc	tcaaaaaaaa	aaaaaaaat	ggtgttttgg	aaaaaccgg	aatggacaa
7981	aaaaaaaac	accaaaaaa	aaaaaaaat	tttttttttgg	aaaaaccgg	aatggacaa
8041	ctttttctg	gaactgttt	tcttttaata	tttttaacttt	gtcaagtctg	gagaggctaa
8101	ttgttggaa	tcgttcttt	tttagtact	tttaggtcat	tttaatctc	acttactcta
8161	ctagacctt	taggttctg	ctagactagg	tagaactctg	ctttgccatt	tcttggtct
8221	gttttgtata	gttatcaata	ttcatattt	tttacaatgt	attcagatca	ttttttttt
8281	tcttttttt	ttttttttt	ttttttacat	tttagttaga	gacagggtt	caccatattg
8341	gcaggctgc	tctcaaaactc	ctgacacctgt	gtatccaccag	cctcgccctc	ccaaagtgt
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8461	atggtacaca	ggttaaggag	tgttagactca	gacggttttt	ttttttttt	tctcttcctt
8521	cttcccttc	cgtttttttt	cccttctctc	tttcctttttt	ttttttttt	tttgcttcct
8581	caggccttt	ccaggcctt	caaaggccctg	taactttttt	tgagtttaacg	tctttatggg
8641	aggccctgca	cttagtgaaag	aagtggtttc	agagttgagt	tacctttggct	tctggaggt
8701	gaaactgtat	ccctatacccc	tgaagtttaa	aggggggtgca	atgttagatga	gaccggcaaca
8761	tagatcctt	tcacaggctc	AGAGACTCAG	GTCCCCAGGAC	TGGACATATC	TGGCACTCCTG
8821	CCCTCTGACT	TCAGCCGGCTA	CTTCCAATAT	GAGGGGTCTC	TGACTACACC	GCCCTGTGCC
8881	CAGGGTGTCA	TCTGGACTGT	GTTTAACCAG	ACAGTGTATGC	TGAGTGTCTAA	GCAGGtgggg
8941	ctgggggtgt	tgtggacaca	gtgggtgtcg	ggggaaaggagg	atgttaaggatg	agatggagaaa
9001	caggagaaga	aagaatcaa	ggctgggtctc	tgtggcttac	gcctataatc	ccaccacgtt
9061	gggaggctga	ggtggagaa	tggtttgaggc	ccaggaggttc	aagacaaggc	ggggcaacat
9121	agtgtgaccc	catcttacc	aaaaaaacc	aaacaaaacc	aaaaatagcc	ggggcatgggt
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9241	gggtttgaga	ctgcagtgtgg	ctatgatccc	accactgcct	accatcttta	ggatacattt
9301	attatttat	aaaagaaatc	aaggaggctgg	atggggaaata	caggaggctgg	aggggtggaggc
9361	cctgagggtgc	tagttgtgg	tgggtgtgg	accctttgttt	cctgtcatgc	ttgatccca
9421	cccacactgt	ccactgaccc	cccttagCTCC	ACACCTCTC	TGACACCCCTG	TGGGGACCTG
9481	GTGACTCTG	GCTACAGCTG	AACTTCCGAG	CGACGGCAGCC	TTTGAATGGG	CGAGTGATTG
9541	AGGCCTCCCT	CCCTGCTGGA	GTGGACAGCA	GTCCTCGGGC	TGCTGAGGCC	Ggtacagctt
9601	tgtctggtt	ccccccaggcc	agtagtccct	tatcctccca	tgtgtgtgcc	agtgtctgtc
9661	attgggtgtc	acagccccggc	tctcacaatct	cttttttctc	tccagTCCAG	CTGAATTCCT
9721	GCCTGGCTGC	TGGtgagtct	gcccctcctc	ttggtccctga	tgccaggagaa	tctccctttc
9781	ccattcaggcc	ccagggctgc	tcaggacccgc	ctctgctccc	tgcagaacacg	
9841	acccaaaccc	caatattaga	gaggcagatc	atgggtggga	ttttttttt	gtccccccatt

9901 gctaattgtat tagaatgaag cttgagaaat ctcgcagcat cccttcgca aaagaatccc
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 10141 ttggcttttta ggaaggaaaa acgggtgtta tcttaccctt tctcggtat ccacctcat
 10201 cccctggctg gcctctctg ggggtgtgg gggactgagg cactatgggg ctgcctgaga actcgggca
 10261 ggggtgtgg agtgcactga gggagggtttt gggaaactct gcaagacccct cttccccc
 10321 aaggaggccc tctctgtctt ccatcgagg TGACATCCTA GCCCTGGTTT TTGGCCTCCT
 10381 TTTTGCTGTC ACCAGGGTC CGTTCCTTGT GCAGATGAGA AGGCAGCACA Ggtattacac
 10441 tgacccttc ttcaggcaca agttcccccc acccttgtgg agtcaacttca tgcaaaaggcgc
 10501 atgcaaaatga gctgctctg ggccaggatttt ctgattagcc tttccctgttg tgtacacaca
 10561 gAAGGGAAC CAAAGGGGT GTGAGGTACC GCCCAGCAGA GGTAGCCGAG ACTGGAGCCT
 10621 AGAGGCTGGA TCTTGGAGAA TGTGAGAAGC CAGCCAGAGG CATCTGAGGG GGAGCGGGTA
 10681 ACTGTCCTGT CCTGCTCATI ATGCCACTTC CTTTTAACTG CCAAGAAATT TTTTAAATA
 10741 AATATTATA ATaaaatatg ttttagtcac ctttgttccc caaatcagaa ggaggatttt
 10801 gaatttccta ttactgttt tagcaccaat ttagtggtaa tgcatttttattt ctattacagt
 10861 tcggccttcc tccacacatc actccaaatgt gttggccccc

FIG.- 15F

FIG.- 15A

FIG.- 15B

FIG.- 15C

FIG.- 15D

FIG.- 15E

FIG.- 15F

FIG.- 15

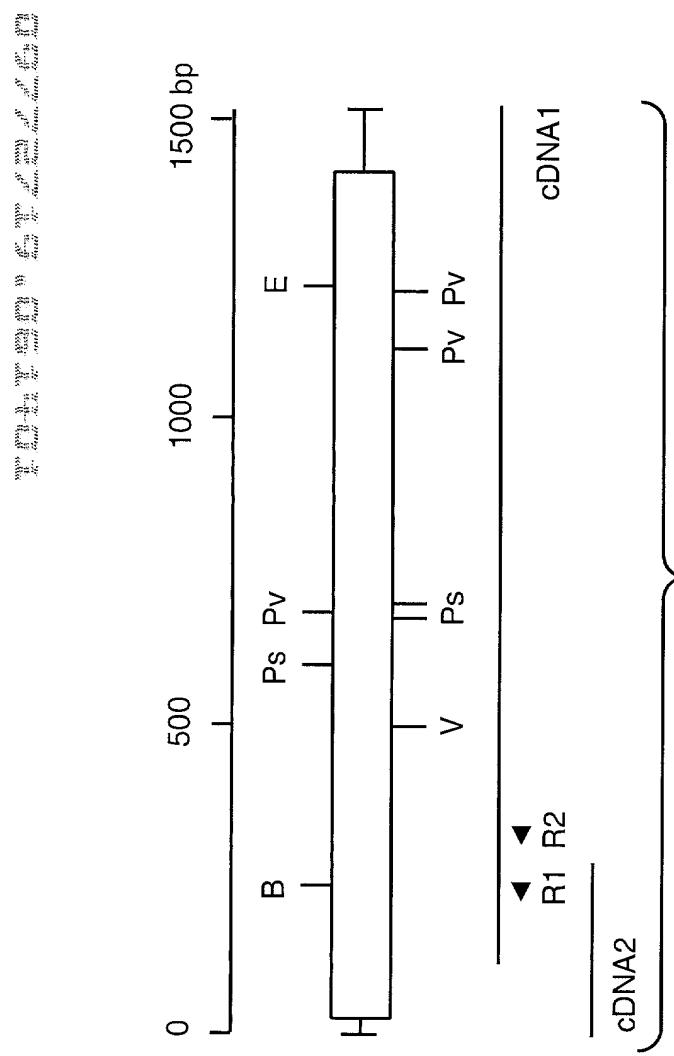


FIG.-16

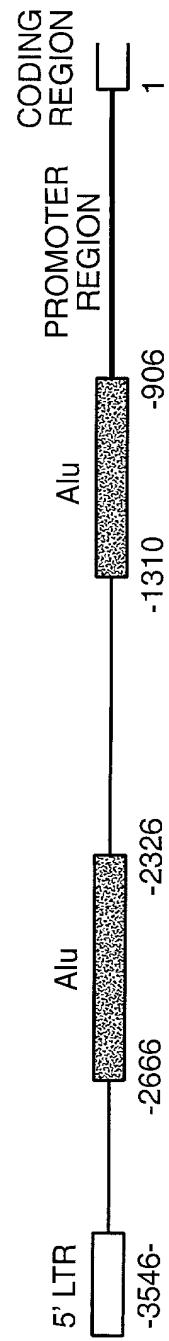
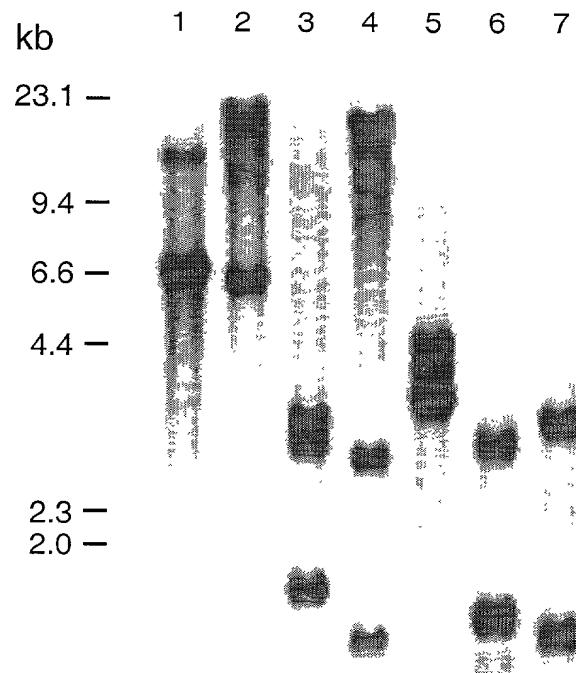
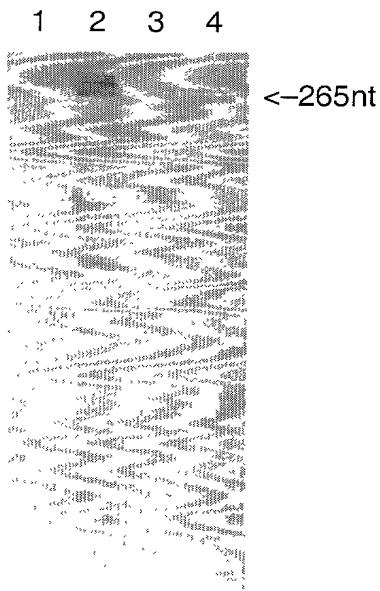
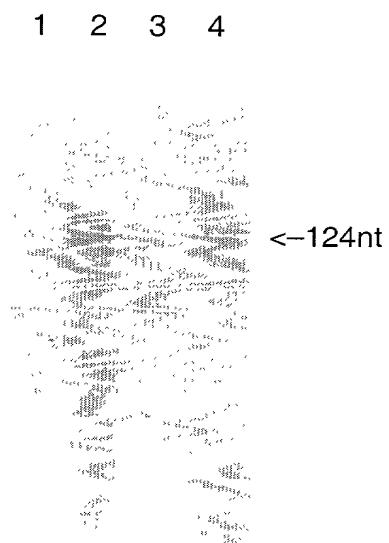


FIG.-20

**FIG._17****FIG._18A****FIG._18B**

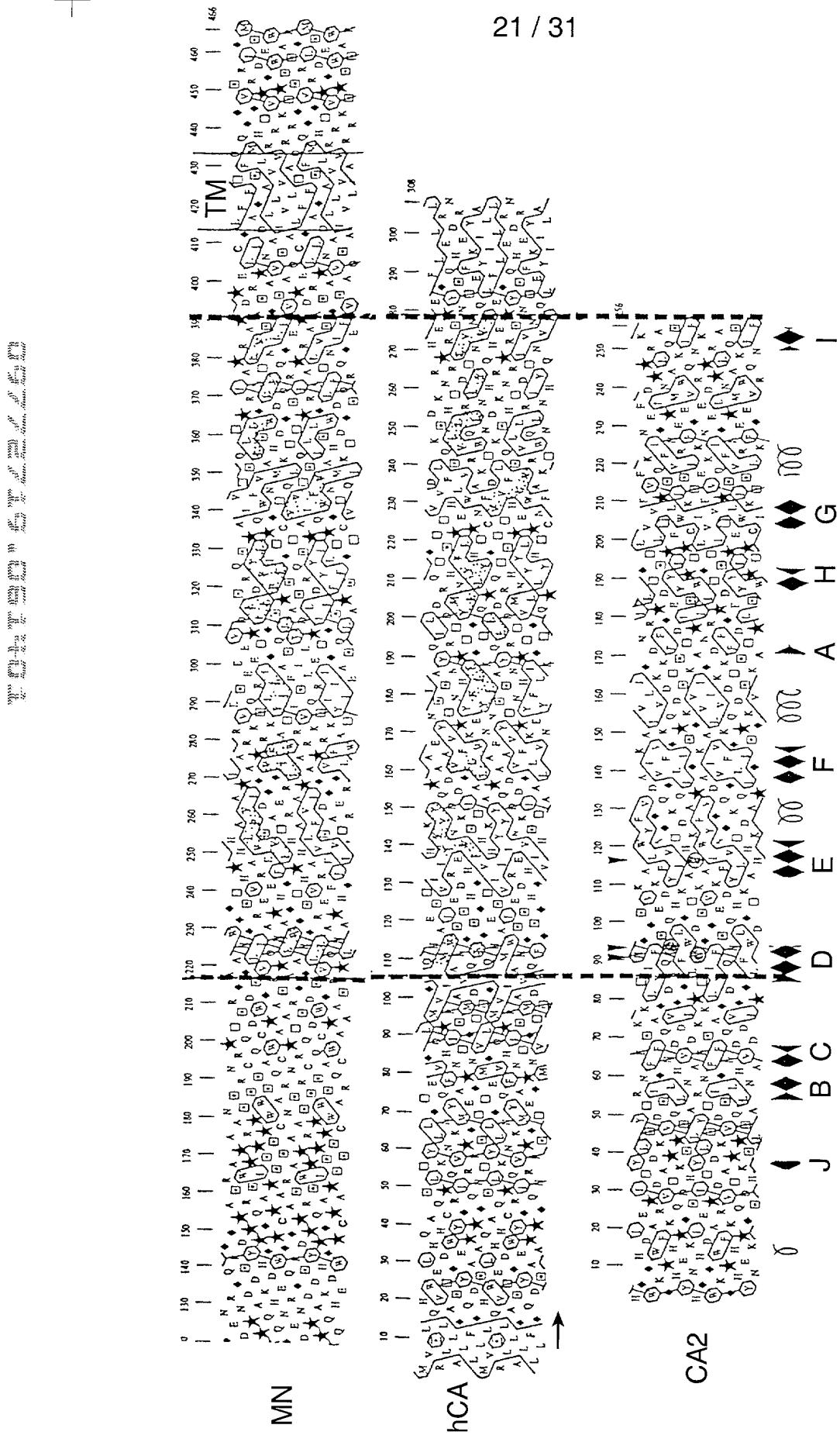


FIG._19A

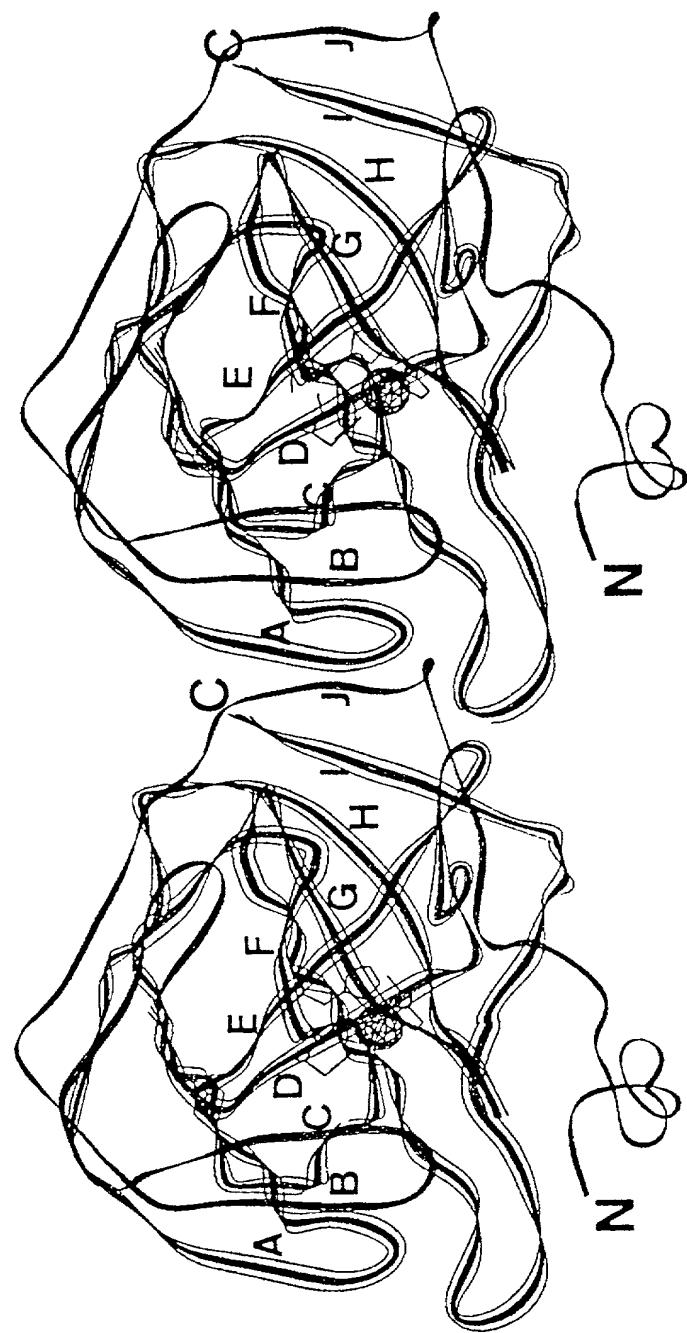


FIG._ 19B

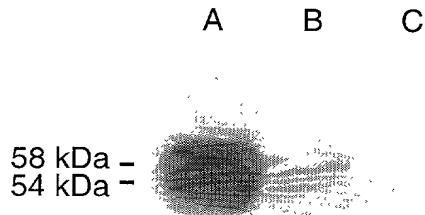


FIG._21A

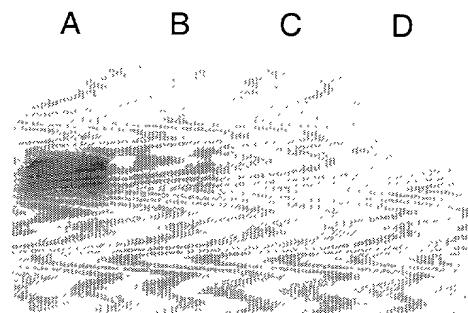


FIG._21B

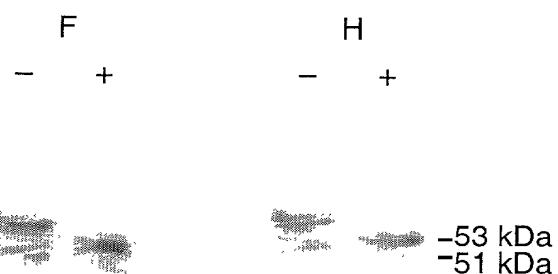


FIG._21C

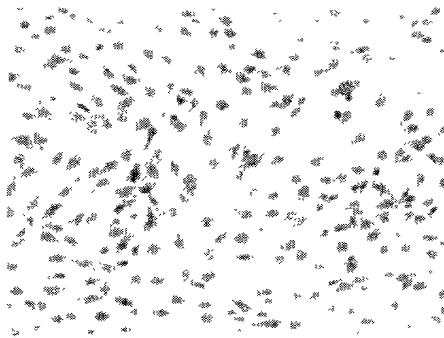


FIG._22A

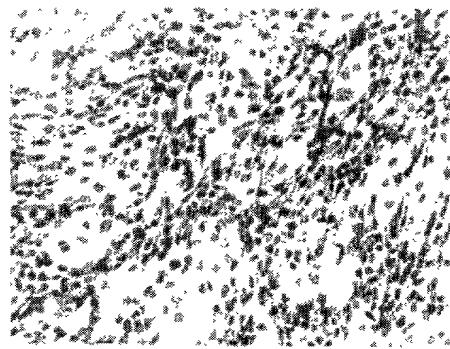


FIG._22B

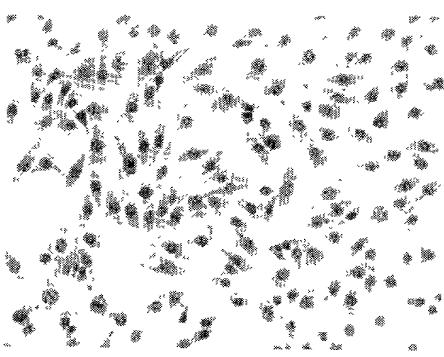


FIG._22C

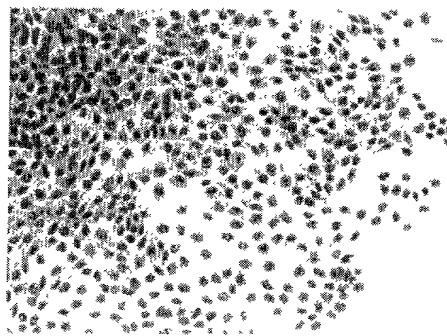


FIG._22D

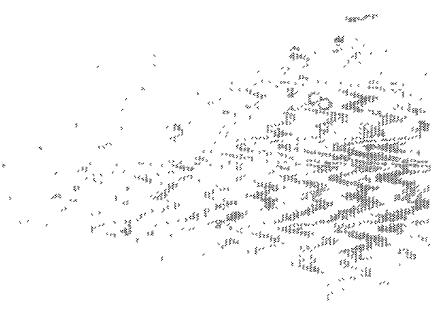


FIG._22E

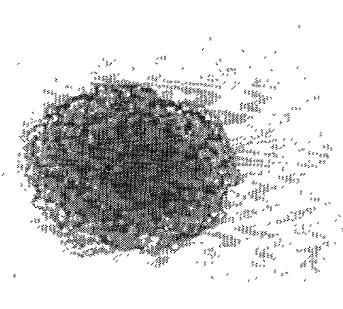


FIG._22F

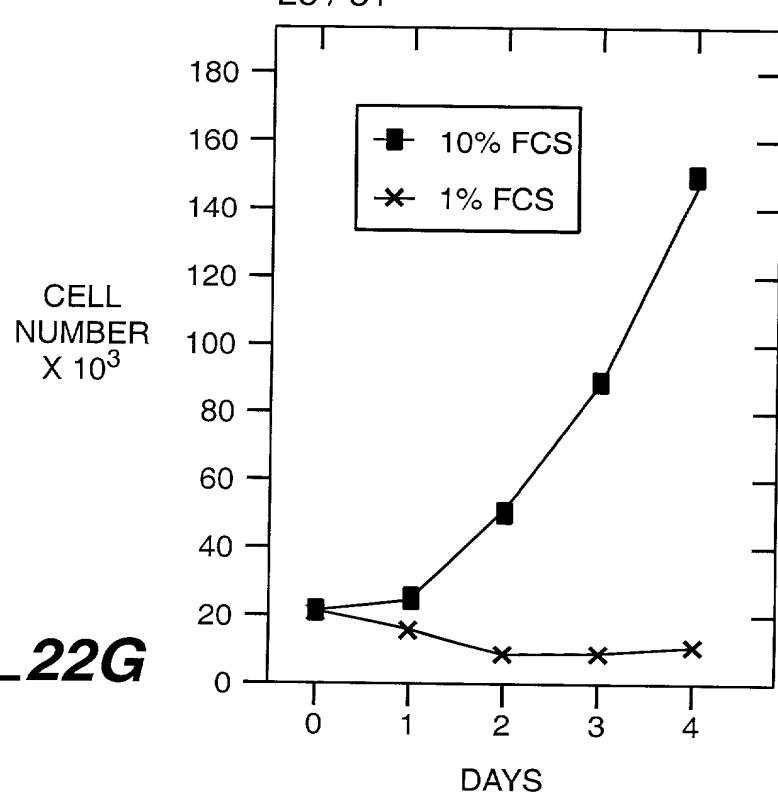


FIG._22G

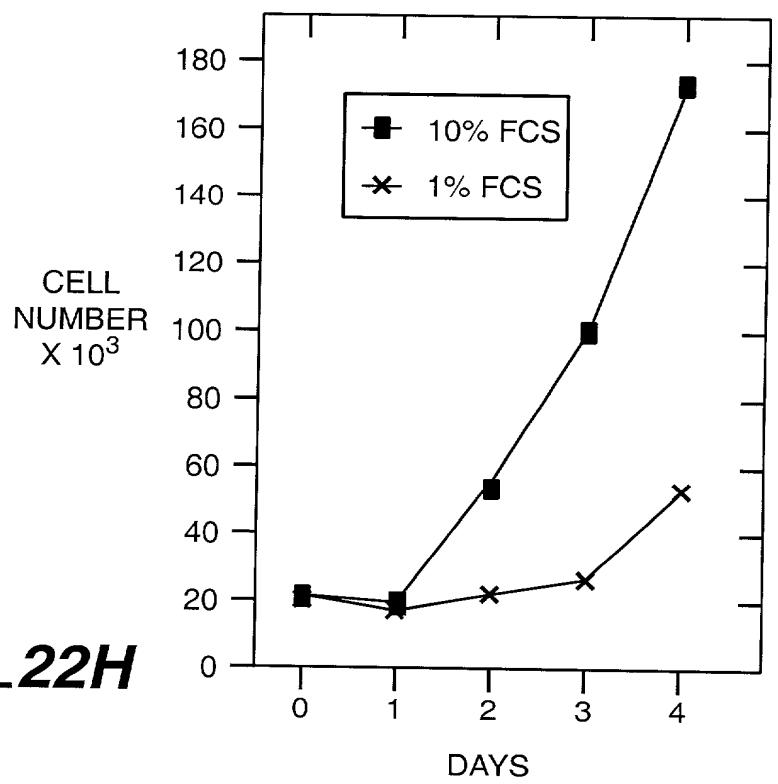
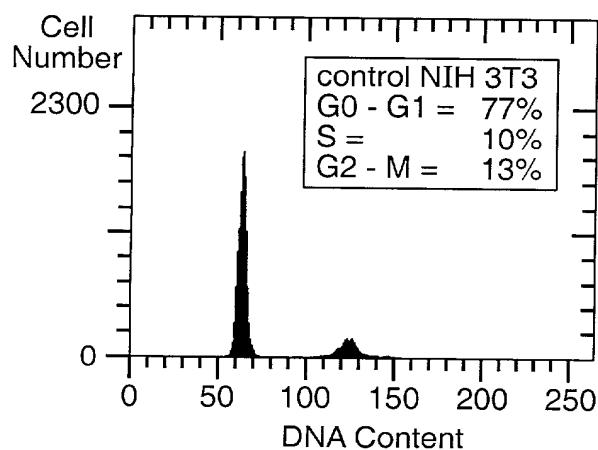
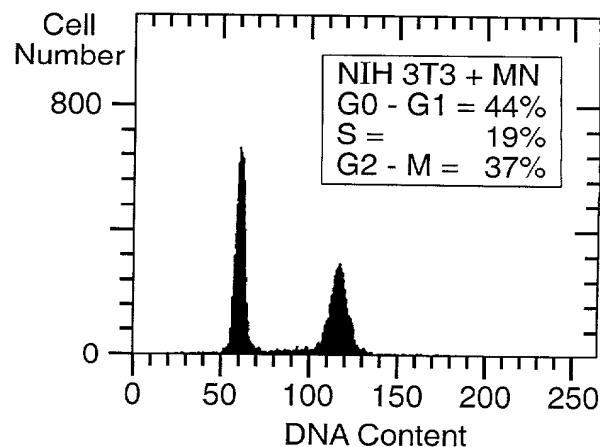
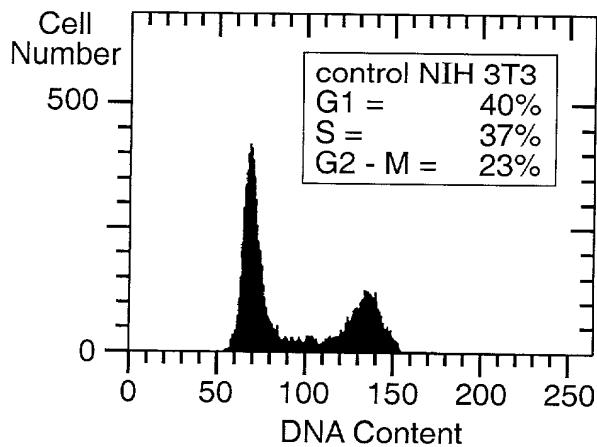
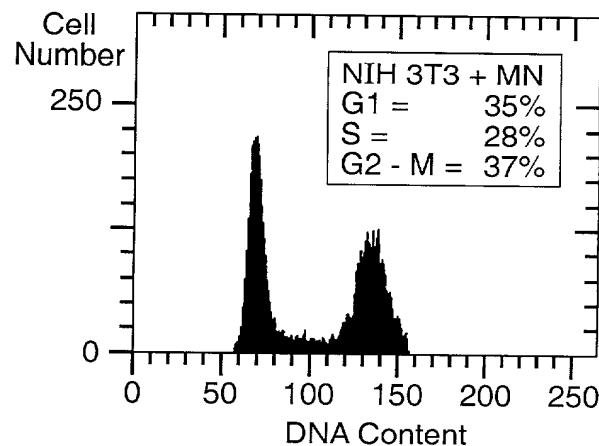
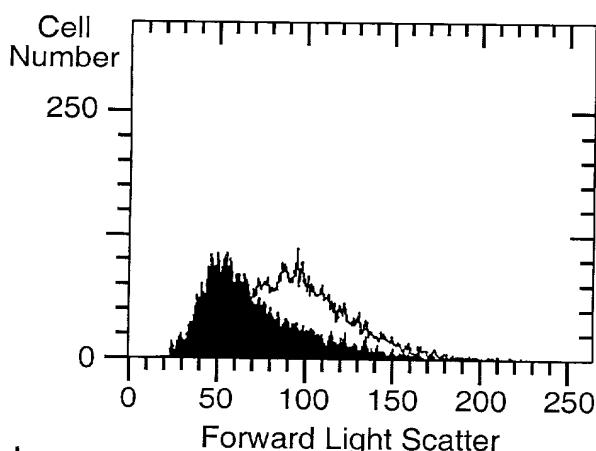


FIG._22H

**FIG._23A-1****FIG._23A-2****FIG._23B-1****FIG._23B-2**

■ NIH 3T3 + MN
 □ CONTROL NIH 3T3

— Kolmogorov-Smirnov Statistics —
 $D/s(n) = 19.03$
 $D = 0.36$
 Channel = 70
 Channels 0 - 255
 99% probability of difference

FIG._23C

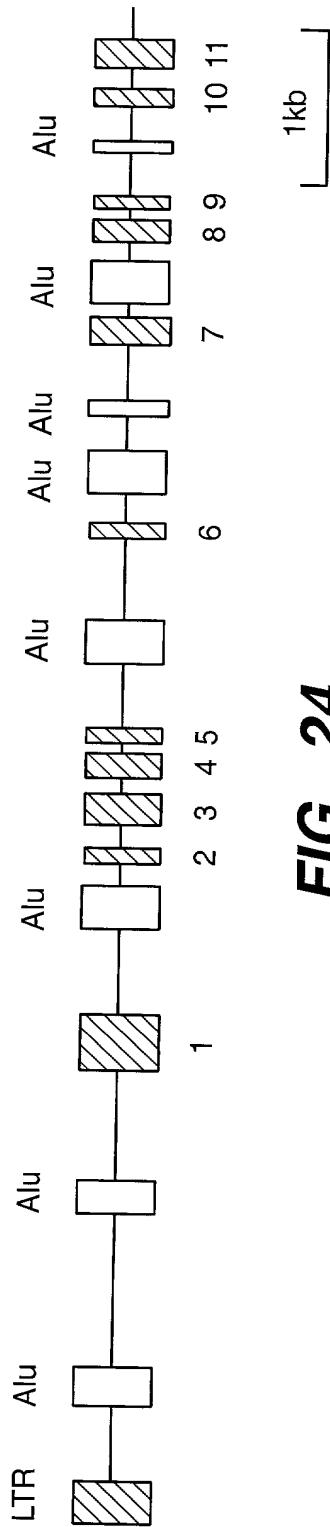


FIG._24

TOTAL SEQUENCE EXTENT: FROM 1 TO 10898

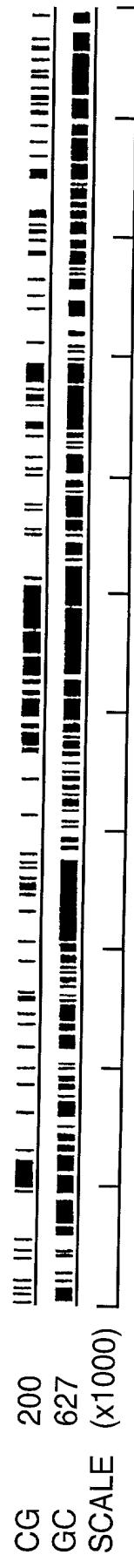


FIG._26

-506 CTTGGCTTTC ATTCAAGGCTC AAGTTTGTCT CCCACATACC CATTACTAA CTCACCCCTCG
 -446 GGCTCCCTA GCAGGCTGCC CTACCCCTTT ACCTGCTTCC TGGTGGAGTC AGGGATGTAT
 AP2
 -386 ACATGAGCTG CTTTCCCTCT CAGCCAGAGG ACATGGGGG CCCCAGCTCC CCTGCCTTTC
 -326 CCCCTCTGTG CCTGGAGCTG GGAAGCAGG CAGGGTAAAGC TAGGCTGGC TGGCAAGGAG
 -266 CTGGGGTGTG CCAGGGAGAG CCTGCATAGT GCCAGGGTGT GCCTTGGGT CCAAGCTAGT
 p53
 -206 CCATGGCCCC GATAACCTTC TGCCCTGTGCA CACACCTGCC CCTCACTCCA CCCCCATCCT
 Inr
 -146 AGCTTTGGTA TGGGGAGAG GGCACAGGGC CAGACAAACC TTGTGAGACTT TGGCTCCATC
 Inr
 -86 TCTGCAAAG GGGCTCTGT GAGTCAGCCT GCTCCCCCTCC AGGCTTGCTC CTCCCCACC
 AP1 AP2
 -26 CAGCTCTCGT TTCCAATGCA CGTACAGCCC GTACACACCG TGTGCTGGGA CACCCCCACAG
 * * * . . .

FIG._25

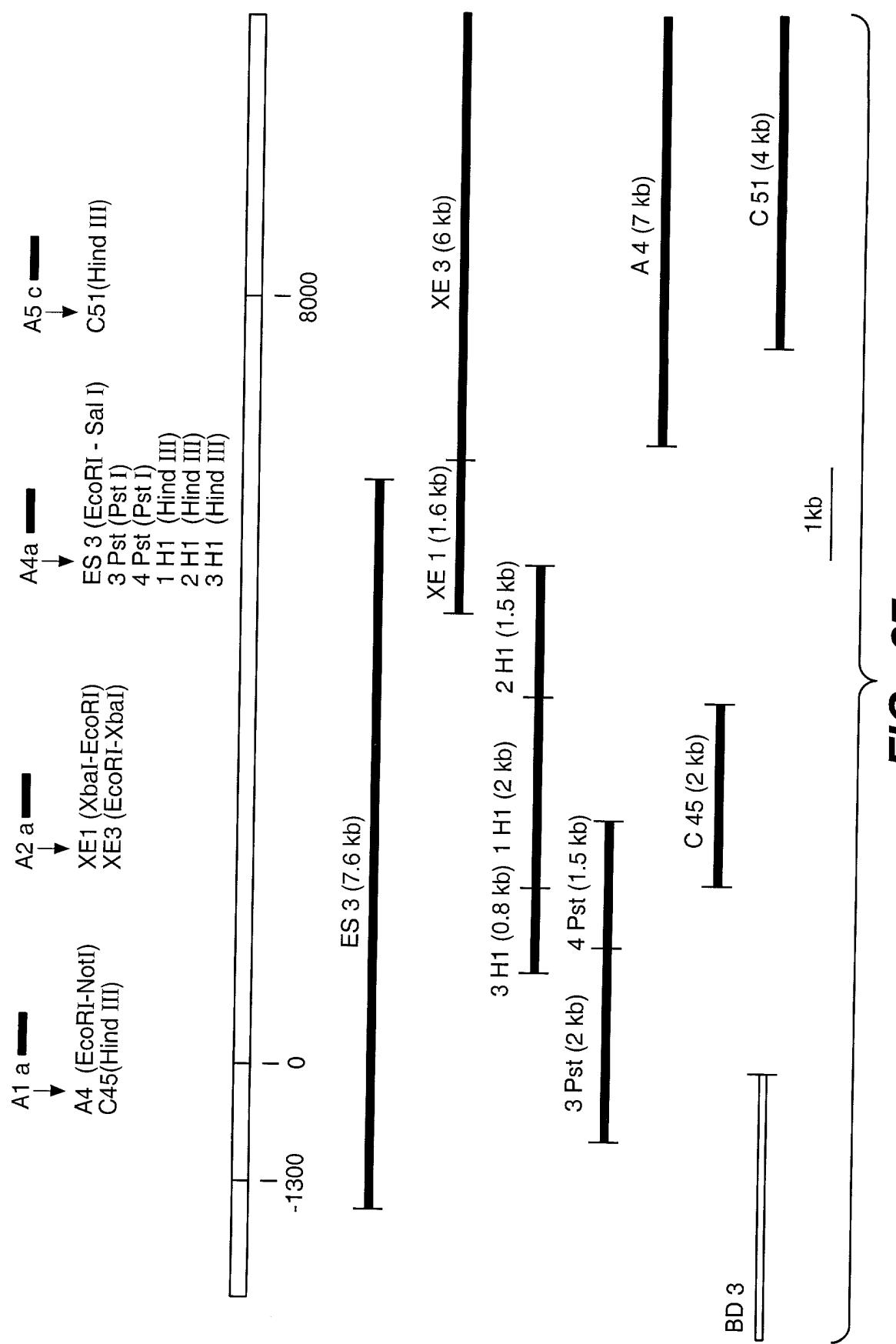
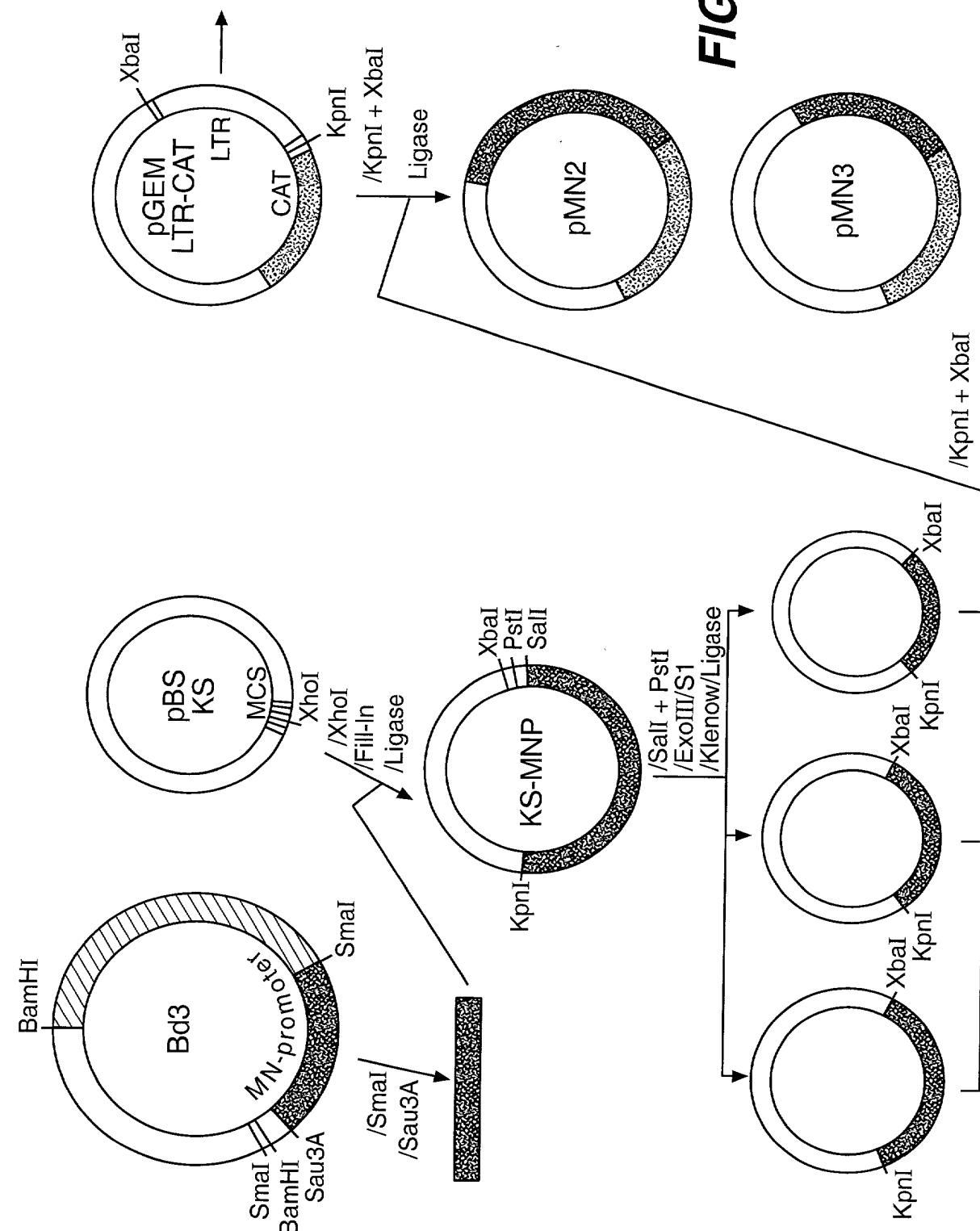
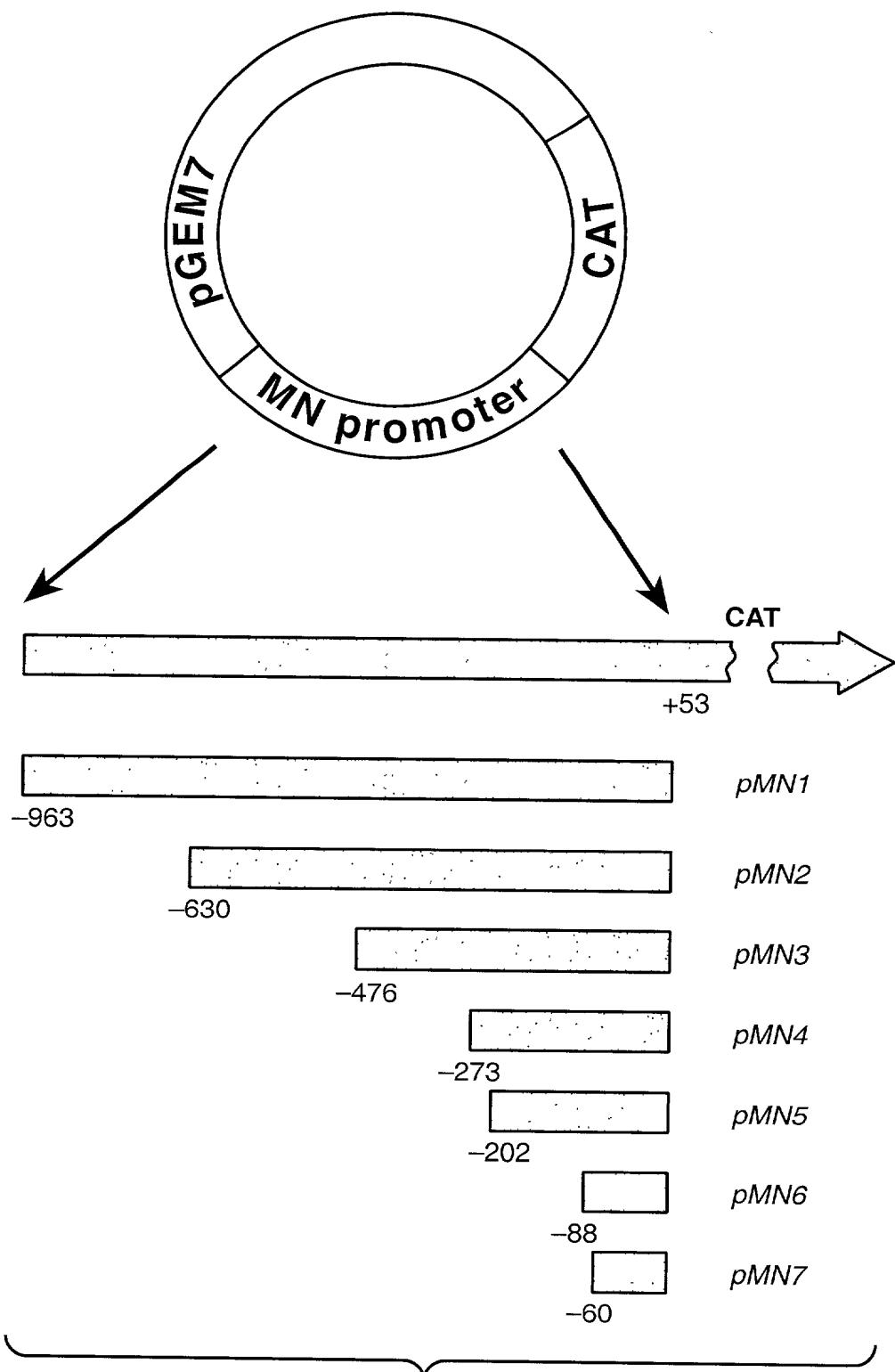


FIG._27

FIG. 28



**FIG._29**